GLAST Ground System Rejected Risks

Risk ID

001

Risk Name

LAT IOC Operations Lead

Risk Status

Open
Closed
Rejected

Risk Planning Stage

Research
Accept
Watch
Mitigate

Open Date

10/27/03

Originator

Mike Rackley

Risk Impact

Very High
High
Medium
Low
Very Low

Risk Probability

Very High
High
Medium
Low
Very Low

Risk Period

Short (< 4 mo.)
Mid (4-9 mo.)
Long (> 9 mo.)

Risk Value

13

Low =
Med. =
High =

Risk Description

The current LAT IOC operations lead, Dave Lung, is not considered by SLAC to be the permanent long term operations lead. While thus far the acting operations lead has been a good point of contact, the Project needs to start working with the permanent lead who will be around for the pre-launch, L&EO and on-orbit activities. The permanent lead should be available to prepare for and participate in the LAT IOC Peer Review (February '03) and the Ground System Design Review (May '04).

Risk Mitigation

01) For SLAC, make bringing on a qualified, permanent IOC operations lead a high priority, or make the current acting lead permanent.
02) Fill the permanent IOC operations lead position in time to prepare for and participate in the LAT IOC Peer Review in November 2003.

Risk Log

Risk Rejected at 10/30/03 GOWG

Risk ID	Risk Name	Risk Status	Risk Planning Stage
010	Restricted IONet Protocols	Open Closed Rejected	Research Accept Watch Mitigate

Open Date	Originator
9/21/04	Howard Dew

Risk Impact	Risk Probability	Risk Period	Risk Value
Very High High Medium Low Very Low	Very High High Medium Low Very Low	Short (< 4 mo.) Mid (4-9 mo.) Long (> 9 mo.)	25

Low =
Med. =
High =

Risk Description

The use of Restricted IONet in the MOC requires ability to pass certain protocols through the Restricted IONet to other networks. There is no confirmed definition of what protocols can be passed. This severely impacts the design of the GLAST MOC.

Risk Mitigation

1. Move the GLAST MOC off of the Restricted IONet network to OPEN IONet.
2. Do not immediately implement those items of the GLAST MOC which use protocols currently banned from traversing the Restricted IONet boundary.
3. Obtain in writing from Code 291 and Code 297 the permission to use the protocols defined in the Dustin Aldridge document showing all protocols anticipated to be used in and out of the MOC.

Risk Log

10/7/04 – Risk rejected at GOWG. Per Ken Lehtonen, this item has been resolved.

Risk ID	Risk Name	Risk Status	Risk Planning Stage
011	Information For PSS	**Open** **Closed** **Rejected**	**Research** **Accept** **Watch** **Mitigate**

Open Date	Originator
9/28/04	Howard Dew

Risk Impact	Risk Probability	Risk Period	Risk Value
Very High **High** **Medium** **Low** **Very Low**	**Very High** **High** **Medium** **Low** **Very Low**	**Short (< 4 mo.)** **Mid (4-9 mo.)** **Long (> 9 mo.)**	**25** Low = Med. = High =

Risk Description

The GLAST Portable Spacecraft Simulator (PSS) has desperately been trying to get enough information from Spectrum Astro, LAT and GBM in order to provide simulations of the telemetry types necessary to test against the GLAST MOC ITOS workstations. Thus far, the information has not been completely obtained and this will pose a significant threat to the PSS deliveries which occur in October and November 2004. The PSS development team will not be available after the deliveries.

Risk Mitigation

1. Deliver the PSS standalone units with known deficiencies.
2. Do not deliver the PSS units until the information has been received and extend the delivery dates until information is present.
3. Deliver the PSS's and fill in the deficiencies with sustaining engineering updates to include the missing information about data types.

Risk Log

10/7/04 – Risk rejected at GOWG. Per Ken Lehtonen, this is not a risk.

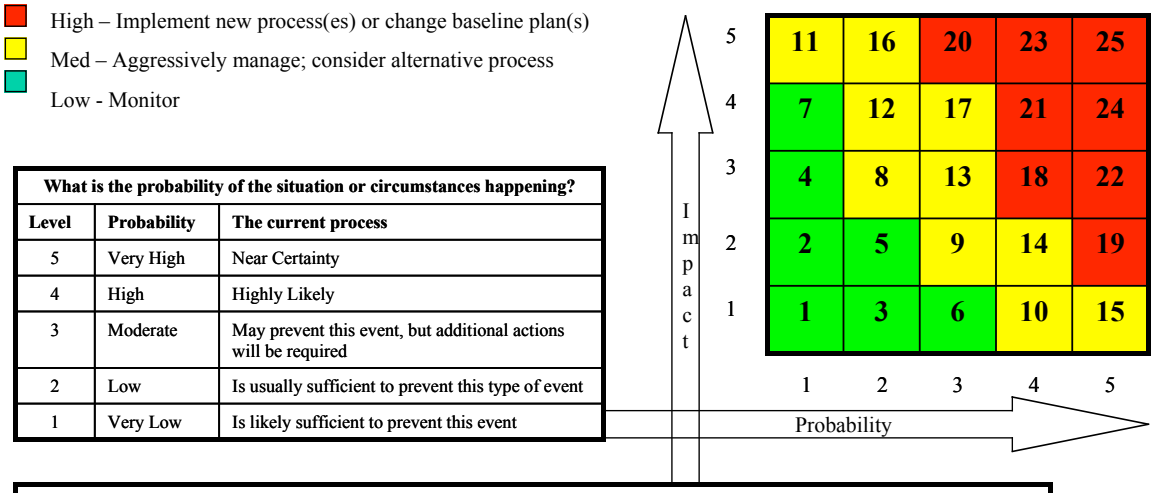
LEGEND

High – Implement new process(es) or change baseline plan(s)

Med – Aggressively manage; consider alternative process

Low - Monitor

What is the probability of the situation or circumstances happening?		
Level	**Probability**	**The current process**
5	Very High	Near Certainty
4	High	Highly Likely
3	Moderate	May prevent this event, but additional actions will be required
2	Low	Is usually sufficient to prevent this type of event
1	Very Low	Is likely sufficient to prevent this event



Given the event occurs, what is the magnitude of the impact to the mission?					
Level	**Very Low (1)**	**Low (2)**	**Moderate (3)**	**High (4)**	**Very High (5)**
Technical	Minimal or no Impact	Moderate reduction, same approach retained	Moderate reduction, workarounds required	Major Reduction, workarounds required	Must be Mitigated
Schedule	Minimal Impact	Additional activities required in order to meet need date	Level 2 Milestone slip of up to < = 1 month	Level 2 Milestone slip of > 1 month, or critical path impacted	Cannot achieve major program milestone
Cost	Minimal Impact of <$25k	Budget increase between $25k and $100k	Budget increase between $100k and $250k	Budget increase between $250k and $1M	Budget increase greater than $1M